

**SYSTEM AND METHOD FOR BROADBAND
ANALYSIS OF TELEPHONE LOCAL LOOP**

Abstract of the Disclosure

A method and system analyzes a telephone local loop and includes a central office operatively connected to the telephone local loop. A bandwidth analysis system is operatively connected to the central office and operative for determining the physical loop faults within the loop; qualifying the local loop for a particular Digital Subscriber Line (DSL) technology; and quantifying the local loop by calculating the transmit signal Power Spectral Densities (PSD) and calculating upstream and downstream data rates for particular DSL technology.